

# Technical Bulletin

### Reissued: 23-Mar-10

Model: AI-P1	Date: 13-Mar-08	No.: RG179001c
RTB Reissue		
The items in bold italics have been corrected.		

Subject: Firmware Release Note: Network DocBox			Prepared by: K.Hamada	
From: 1st Overse	as Tech Support Sec., 1st PC	)M Dept.		
Classification:	Troubleshooting	Part information	tion	Action required
	🗌 Mechanical	Electrical		Service manual revision
	Paper path	Transmit/rec	eive	Retrofit information
	⊠ Other ( )			

This RTB has been issued to announce the firmware release information for the **Network DocBox.** 

Version	Program No.	Effective Date
1.02	G1795744E	April 2010 production
1.01	G1795744D	December 2009 production
1.00	G1795744C	November 2008 production
0.33	G1795744A	1st Mass production

Version	Modified Points or Symptom Corrected
1.02	Symptom corrected:
	1. The printer might not transfer the job log or the access log to Web SmartDeviceMonitor or Remote Communication Gate S Pro.
1.01	Symptom corrected:
	<ol> <li>Duplicate logs might be transfered to Web SmartDeviceMonitor.</li> </ol>
1.00	<ol> <li>Symptom corrected:</li> <li>Job names that include the "%s" character prevent Web SmartDeviceMonitor from retrieving the MFP's job list.</li> <li>Job names that include the "%s" character prevent the Document server from being accessed by the web service. The result is that the Document Server cannot be seen from Web Image Monitor.</li> <li>The setting that controls access to the Debug Log (SP5842-001 bit #7) has no effect.</li> </ol>
0.33	1st Mass production

# Technical Bulletin

## Reissued: 10-May-11

	Μ	lod	el:	AI-P1
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Date: 13-Mar-08

No.: RG179002i

#### **RTB Reissue**

The items in bold italics have been corrected.

Subject: Firmwar	rmware Release Note: Network Support			Prepared by: T. Hirakawa		
From: 1st Overse	as Tech Support Sec., 1st PQ	M Dept.				
Classification:	Troubleshooting	Part informat	tion	Action required		
	🗌 Mechanical	Electrical		Service manual revision		
	Paper path	Transmit/rec	eive	Retrofit information		
	Product Safety	🛛 Other (	)	🛛 Tier 2		

This RTB has been issued to announce the firmware release information for the **Network Support.** 

Version	Program No.	Effective Date	Availability of RFU
7.36	G1795742K	May 2011 production	Not available
7.34	G1795742J	October 2010 production	Not available
7.31	G1795742H	March 2010 production	Available
7.30	G1795742G	January 2010 production	Available
7.26	G1795742F	June 2009 production	Available
7.24.1	G1795742E	February 2009 production	Available
7.20	G1795742D	November 2008 production	Available
7.17	G1795742C	September 2008 production	Available
7.14	G1795742B	June 2008 production	Available
7.05.1	G1795742A	1st Mass production	Available

Note: Definition of Availability of RFU via @Remote

"Available": The firmware can be updated via RFU or SD card.

"Not available": The firmware can only be updated via SD card.

Version	Modified Points or Symptom Corrected
7.36	Symptom corrected:
	<ol> <li>An httpd timeout has been implemented to prevent Web ImageMonitor lockups that sometimes occurred when applications accessed the printer by http.</li> </ol>
	2. If Windows Authentication is enabled, printing a large number of copies of a job might take longer than might typically be expected.
	3. Chunk Transfer Encoding over an IPP port might results in print jobs being reset.
	4. If SSDP = Active (Web ImageMonitor > Configuration > Network Security), a high load on the CPU might result in Web ImageMonitor locking up.
	5. LP with an external controller will lose network connectivity. This only occurred if the network settings were changed repeatedly and the LP's "NetWare" setting was already "Active" (before the network settings were changed).
	6. The LP icon might not be shown in the Windows "Network" dialogue if SSDP is enabled. This affected Windows Vista, 2008/R2, and 7.



Model: AI-	-P1		C	)ate: 13-Ma	ır-08	No.: R	G179002i
Version	Ν	<b>Iodified Poin</b>	ts or S	ymptom C	orrected		
	7. The device might lose network connectivity if SSDP is enabled. Network connectivity could be temporarily restored after a power cycle.						
7.34	IMPORTANT: When you update to this version of Network Support(ver. 07.34, Program No. G1795742J), be sure to install the following firmware version (or newer) together as set, otherwise the machine will not function correctly. Upgrade the firmware listed in the table below together as a set, according to the options that are already installed on the customer's machine.						No. ogether as a g to the
	Firmware:	Version:	Progra	m No.:	Note:		
	Printer	1.18	G1795	746M	forG179		
	Web Support	1.14	G1795	743D	forG179		
	<ul> <li>Symptom corrected:</li> <li>1. If the MFP/LP has a a HELO using just include the client's I the MFP/LP was understanding Windows Au granted the "Available"</li> </ul>	a statically con ts hostname. FQDN will clos able to send of the Windows g thentication. E the Functions"	nfigured SMTP s se the c emails. Iroup na Because ' specifie	IP address servers that onnection. ame from a e of this, log ed for them	and doma require cli The result Windows a ged in use in the Ado	ain, it al ient HE : of this 2008 R ers will d dressbc	ways sends LOs to was that 2 server only be ook.
	3. The device is unabl has a name consist supported group na	e to assign gr ing of more th me length will	oup priv an 20 b I be incr	vileges to a oytes. To ac reased to 4	logged in Idress this 0 bytes.	user if t issue, t	hat group the
	4. The printer's windows Authentication function is unable to use Kerberos when being authenticated on a Windows 2008 or Windows 2008 R2 server. The prin will still be successfully authenticated because it is able to fail back to NTLMv2						ros when The printer NTLMv2.
	<ul> <li>5. If the printer's IP address is changed to an IP address of another subnet, users will not be able to browse the network (using Scan to SMB) until the printer is rebooted.</li> <li>Other changes:</li> </ul>					net, users printer is	
	SSL-related changes: Note: The new field will only appear if Web Support firmware version 1.14 or later and Printer firmware version 1.18 or later has also been applied to the device.						1 or later vice.
	<ol> <li>When the device cr algorithm (SHA1 or implemented by add form.</li> </ol>	eates a certific MD5) it wants ding a field "A	cate rec s used t Igorithm	uest, it is n o sign the c n Signature	ow able to certificate. " to the cer	<ul> <li>specify This ha rtificate</li> </ul>	/ which s been request
	<ol> <li>Web Image Monitor</li> <li>Configuration &gt;</li> </ol>	r now shows th Security > De	he certil evice Ce	ficate's key ertificate > [	length in: Details		



Model: AI-	-P1		Date: 13-Mar-08	No.: RG179002i		
Version		Modified Points or	Symptom Corrected			
	3.	Specific versions of SSL or TLS (SSLv enabled/disabled using Web Image Mo either of the following locations: - Configuration > Security > Network - Configuration > Security > SSL/TLS	2, SSLv3, or TLSv1) ca onitor. The setting can l Security	an now be be configured from		
	4.	The encryption strength used for SSL of using either of the following settings in - Configuration > Security > Network - Configuration > Security > SSL/TLS	can now be configured. Web Image Monitor: Security	. This can be done		
	5.	For security reasons, the device will no longer accept SSL incoming, or establish outgoing, connections that use NULL or ADH ciphers.				
	6.	<ul> <li>Windows Authentication fails if the username or password includes lower-case European characters.</li> <li>The device's SMB timeout was too short (1sec). This caused problems when being used across subnets. For this reason, it has been increased to 10 sec.</li> </ul>				
	7.					
7.31	Ot 1.	er changes: For security reasons, the device will no longer accept SSL connections that use the NULL or Anonymous Diffie-Hellman ciphers.				
7.30	Sy 1. 2. 3. 4. 5.	<ul> <li>Imptom corrected:</li> <li>The printer's IP address lease renewa rejected by DHCP relay agents. This we until the printer reinitializes the networe If either of the WSD Printer or Netware problems might occur. If these problems hours.</li> <li>The network might become unrespective of the accessed but configue Windows authentication might fail on a contains 2 byte characters.</li> <li>SDK/J applications might not be able to devices.</li> <li>When the device IP address and DNS the domain specified by the device set be overwritten by the domain obtained</li> </ul>	I request is incorrectly vill result in a loss of co k connection (10 secor e functions are enabled ns occur, they typically onsive. ration changes will not a domain controller who to recognize some sup server location are ob tting "IPv4 > Domain N I from DHCP.	formatted and innectivity that lasts ids). I, the following last for about 2.5 be applied. ose hostname ported USB tained from DHCP, ame > Specify" will		
7.26	Sy 1. 2. 3.	<ul> <li>mptom corrected:</li> <li>When jobs are submitted to the device' might not be printed.</li> <li>If IPP authentication is enabled, printin Vista/Server 2008 client might result in Multiple Windows Vista/Server 2008 Petthrough IPSec.</li> </ul>	's lpr port repeatedly, s g through an IPP port f printing failure. Cs might not be able to	ome of the jobs from a Windows access the device		
7.24.1	Ot 1. Sy 1.	her changes: Kerberos authentication support for Wi mptom corrected: IPP print jobs are cancelled. This happ	ndows Server 2008. ened very infrequently			

Model: AI-P1 Date: 13-Mar-08 No.: RG179002i							
Version	Modified Points or	Symptom Corrected					
	<ol> <li>After a job consisting of a multiple of exactly 8KB (8192 bytes) is submitted via IPP, the device will no longer accept any more jobs until rebooted.</li> <li>If both SNTP and Date/Time settings are configured in WIM, WIM might not be accessible. This happened very infrequently (about 1% of the time).</li> <li>Note: The fix requires that System firmware version 1.11 or later be applied to the device.</li> </ol>						
7.20	<ol> <li>If the device fails to establish a WPA cagain until rebooted.</li> <li>The device is unable to roam between the IEEE 802.11 standard (a, b, or g).</li> <li>LPR jobs submitted by an HP-UX, AIX cancelled, resulting in an error. Note: This problem will not affect Net "iprntnw65sp7b.zip" has been installenttp://download.novell.com/Download</li> <li>The device doesn't advertise its hostnamight not be undated by DHCP</li> </ol>	or WPA2 connection on access points using dif or Netware 6.5 (SP6 o ware 6.5 SP7 if the pate ed. d?buildid=HsQQ9fMHay ame via DHCP option 1	ce, it will not try ferent versions of r SP7) host will be ch (0~ 2. The DNS server				
7.17	<ol> <li>Symptom corrected:</li> <li>Jobs submitted using the IE ftp client reusing Windows XP x64.</li> <li>Sending a PJL readback (or ustatus) we diprint's bidirect is on from telnet.</li> <li>SNMP events (Access Violation or Loc 4. If the sending of a Scan to Email using submitted to the printer or the device a been sent), an SC997 error will occur.</li> <li>When a WSD client boots, the device's 6. "Date/Time" changes initiated by an SN Log.</li> <li>The device might not be able to access the run (TechMail#TS080441)</li> </ol>	esult in an SC991 error. rill result in an SC997. T kout), are not recorded SMIME is interrupted ( pplication is switched b WSD service might be NTP server are not reco e network once the Log	This only occurs This only occurs if in the Access Log. le. A job is efore the email has stopped. rded in the Access collection tool is				
7.14	<ol> <li>Symptom corrected:</li> <li>The device might not be able to reboot decremented to an earlier date/time usi</li> <li>An SSL2.0 client code fails to properly (TechMail#OTS-2008-185)</li> <li>Multiple RSA implementations fail to pr (TechMail#OTS-2008-276).</li> <li>Web SmartDeviceMonitor shows the IF Example: 192.168.1.10 ==&gt; 10.1.168.<sup>-</sup></li> <li>If an LPR job is submited to the device will stall.</li> <li>An SC819 error might be shown on the via IPsec repeatedly without a power cy 7. An SC997 will be displayed on the Ope devices if IPv6 network settings are cha 8. Excessive time lag when the device rej Saver Mode. This will occur under either – The device is connected to a hub</li> </ol>	via WIM after the devic ing WIM. check for NULL(CVE-20 operly handle signature 9 addresses of TWAIN of 192 followed by an AppleTa operation panel if the of ycle. eration Panel of EFI con anged. oins the network after e er one of the following of that uses the spanning	e's date/time is 206-4343). s(CVE-2006-4339). lients in reverse. alk job, the device device is accessed troller based exiting Energy onditions: tree protocol.				

Model: Al-	Model: AI-P1 Date: 13-Mar-08 No.: RG179002				
Version	Modified Points or	Symptom Corrected			
	<ul> <li>The device is connected via Wirele</li> <li>If WPA2 is configured for a device, the always show the WPA Encryption Meth regardless of actual settings.</li> </ul>	ess LAN. Access Log List in WSI od as TKIP and never a	DM ver 2.x will as CCMP (AES),		
	Other changes:				
	1. The device supports Windows server 2008 DHCPv6 server.				
	To use this option, System firmware (version 1.08 or later), NCS firmware (version 7.14 or later), Websys firmware (version 1.12 or later) and Printer firmware (version 1.08 or later) needs to be applied to the device.				
7.05.1	1st Mass production				

# Technical Bulletin

## Reissued: 17-Nov-10

Model: AI-P1

Date: 13-Mar-08

No.: RG179004c

#### **RTB Reissue**

The items in bold italics have been corrected.

Subject: Firmware Release Note: Web Support			Prepared by: T. Hirakawa	
From: 1st Overseas Tech Support Sec., 1st PQM Dept.				
Classification:	<ul> <li>Troubleshooting</li> <li>Mechanical</li> <li>Paper path</li> <li>Other ()</li> </ul>	<ul> <li>Part information</li> <li>Electrical</li> <li>Transmit/rec</li> </ul>	tion eive	<ul> <li>Action required</li> <li>Service manual revision</li> <li>Retrofit information</li> </ul>

This RTB has been issued to announce the firmware release information for the **Web Support.** 

Version	Program No.	Effective Date
1.14	G1795743D	October 2010 production
1.13	G1795743C	December 2009 production
1.12	G1795743B	June 2008 production
1.06	G1795743A	1st Mass production

Version	Modified Points or Symptom Corrected			
1.14	IMPORTANT: When you update to this version of Web Support (ver. 01.14, Program No. G1795743D), be sure to install the following firmware version (or newer) together as a set, otherwise the machine will not function correctly.			
	to the options that are already installed on the customer's machine.			
	Firmware:	Version:	Program No.:	Note:
	Printer	1.18	G1795746M	forG179
	Network Support	7.34	G1795742J	forG179
	SSL-related changes: Note: The new fields will only appear if Network Support firmware version 7.34 or later and Printer firmware version 1.18 or later have also been applied to the device.			
	<ol> <li>When the device creates a certificate request, it is now able to specific which algorithm (SHA1 or MD5) it wants used to sign the certificate. This has been implemented by adding a field "Algorithm Signature" in the certificate request form.</li> <li>Weth Impre Manitor new shows the certificate is the certificate in the certificate is a specific to the certificate in the certificate is a specific to the certificate to the certificate is a specific to the certificate is a specificate is a specific tot to the certificate is a specificate is</li></ol>			it is now able to specify to sign the certificate. Algorithm Signature'' to
	2. Web Image Moni - Configuration	tor now show n > Security >	• Device Certification	s key length in: te > Details

## Reissued: 17-Nov-10

Model: AI-	P1	Date: 13-Mar-08	No.: RG179004c
Version	Modified Points or S3. Specific versions of SSL or TLS (Seenabled/disabled using Web Image configured from either of the follow- Configuration > Security > Netw- Configuration > Security > SSL/4. The encryption strength used for S be done using either of the followin - Configuration > Security > Netw - Configuration > Security > Netw - Security > SSL/	Symptom Corrected SLv2, SSLv3, or TLSv1 Monitor. The setting c ving locations: ork Security TLS SL can now be configu ng settings in Web Ima ork Security TLS	) can now be an be red. This can ge Monitor:
1.13	Symptom corrected: Changes to the "Web ImageMonitor > Con Encryption Key Auto Exchange Settings > Protocol setting" are not applied to the dev Symptom corrected: 1. The unsupported paper size (5 1/2 x 8 Bypass tray's paper size field. 2. WIM displays "This device is currently	nfiguration > Security > I Security Details > Phas vice. 1/2 Landscape) is show in use by other function	PSec > e 2 > Security /n in the s. Please try
	again later". A reboot of the device is n Other changes: 1. The IPDS option is now available. To use this option, System firmware (v (version 7.14 or later), Websys firmwa firmware (version 1.08 or later) needs	reeded to use WIM agai version 1.08 or later), NC re (version 1.12 or later) to be applied to the devi	n. S firmware and Printer ce.
1.06	1st Mass production		

# Technical Bulletin

### Reissued: 06-Jan-11

Model: AI-P1

Date: 13-Mar-08

No.: RG179005e

#### **RTB Reissue**

The items in <b>bold italics</b> have been added.					
Subject: Firmware Release Note: Engine		Prepared by: T.Hirakawa			
From: 1st Overseas Tech Support Sec., 1st PQM Dept.					
Classification:	Troubleshooting	Part informat	tion [	Action required	
	Mechanical	Electrical	[	Service manual revision	
	Paper path	Transmit/rec	eive [	Retrofit information	
	Other ( )				

This RTB has been issued to announce the firmware release information for the Engine.

Version	Program No.	Effective Date	Availability of RFU
1.06:01	G1795160G	January 2011 production	Available
1.05:01	G1795160F	March 2010 production	Available
1.04:01	G1795160E	October 2008 production	Available
1.03:01	G1795160D	August 2008 production	Available
1.02:01	G1795160C	April 2008 production	Available
1.01:01	G1795160B	February 2008 production	Available
1.00:01	G1795160A	1st Mass production	Available

Note: Definition of Availability of RFU

"Available": The firmware can be updated via RFU or SD card.

"Not available": The firmware can only be updated via SD card.

Version	Modified Points or Symptom Corrected
1.06:01	Other changes
	<ol> <li>Improve the reliability of detection of opening-closing timing of the bridge unit door.</li> <li>Improve the reliability of continuous action among printing jobs while</li> </ol>
	multiple continuous printing with the staple function selected.
1.05:01	Minor bug correction
1.04:01	<ul> <li>The print speed decreases under the following conditions:</li> <li>A duplex job is performed using "limitless paper feed", and</li> <li>The machine switches over to another tray after running out of paper</li> </ul>
1.03:01	Minor changes applied to improve reliability
1.02:01	<ol> <li>The cleaning web sometimes reaches its End condition before the 160K PM target. When both of the following conditions occur, the possibility of occurrence increases:</li> </ol>
	<ul> <li>The more jobs are performed per day, AND</li> </ul>
	<ul> <li>The more times the machine enters Off Mode per day.</li> </ul>
1.01:01	Minor changes applied to improve reliability
1.00:01	1st Mass production



# Technical Bulletin

#### Reissued: 26-Apr-11

Model: AI-P1	Date: 13-Mar-08	No.: RG179006e
<b>RTB Reissue</b> The items in <b>bold</b> italics have been corrected		

Subject: Firmware Release Note: Option PCL		Prepared by: T.Hirakawa			
From: 1st Overseas Tech Support Sec., 1st PQM Dept.					
Classification:	<ul> <li>Troubleshooting</li> <li>Mechanical</li> <li>Paper path</li> <li>Other ()</li> </ul>	Part information     Electrical     Transmit/rec	ion 🗌 Acti 🗌 Sen eive 🗌 Reti	on required vice manual revision rofit information	

This RTB has been issued to announce the firmware release information for the **Option PCL.** 

Version	Program No.	Effective Date	Availability of RFU
1.06	G1795749F	May 2011 production	Available
1.05	G1795749E	April 2010 production	Available
1.04	G1795749D	February 2010 production	Available
1.03	G1795749C	June 2009 production	Available
1.02	G1795749B	November 2008 production	Available
1.01	G1795749A	1st Mass production	Available

Note: Definition of Availability of RFU via @Remote

"Available": The firmware can be updated via RFU or SD card.

"Not available": The firmware can only be updated via SD card.

Version	Modified Points or Symptom Corrected
1.06	Symptom corrected:
	1. PCL5e/c jobs are canceled if all of the following conditions are met:
	The job specifies that a custom paper size by drawn from the bypass tray.
	-"User Tools/Counter > System Settings > Tray Paper Settings > Printer
	Bypass Paper Size" is something other than "Custom size"
	2. If a PCL6 job is printed to a shift tray immediately following a PCL5 job,
	each page of the PCL6 job will be shifted instead of each job or copy being shifted.
	Note: This problem was reported most often in cases where a PCL6 job is
	printed with the Windows PCL5 Separator page (PCL.sep).
	3. When a page object is superimposed over top of another, the overlapping portions of the objects might be printed in black even if they were not black objects.
	4. PCL XL error resulting in jobs being cancelled occurring under a very specific set of circumstances.
	5. A macro that is only supposed to be printed on the first page of a job, might
	also be printed on subsequent pages.
	6. A device stall might occur if using a very specific combination of font
	types.



Model: AI-P1 Date: 13-Mar-08 N		No.: RG179006e	
Version	Modified Points or S	Symptom Corrected	
1.05	Symptom corrected:		
	Every object on the page is shifted in one GL/2 jobs.	direction. This probler	n only affected HP-
1.04	<ul> <li>Other changes:</li> <li>PCL jobs containing images might be printed slowly.</li> <li>The device suddenly stops printing PCL5 macros after printing a large number of pages (500 or more) and continues to omit macros from PCL5 jobs until the device is reported.</li> </ul>		
1.03	Symptom corrected: Part of pentagon shaped graphics not printed		
1.02	<ol> <li>Symptom corrected:</li> <li>Single page PCL jobs containing a Vertical Cursor Positioning command are split in two and printed on 2 pieces of paper. Jobs submitted using a Windows or MacOS driver were not affected.</li> <li>After a PCL5 job is printed, all subsequent PCL6 jobs will be output to the same tray as the PCL5 job. This continues until the device is rebooted. PCL6 jobs that used finishing options were unaffected.</li> </ol>		
1.01	1st Mass production		



# Technical Bulletin

#### Reissued: 01- Sep-11

Model: AI-P1		Date: 13-Mar-08	No.: RG179007c		
RTB Reissue					
The items in bold italics have been corrected.					
Subject: Firmwar	e Release Note: PS3/PDF	Prepared by:	T.Hirakawa		
From: 1st Overse	as Tech Support Sec., 1st PQM Dept.				
Classification:	Troubleshooting	information $\Box$ Ac	ction required		

🗌 Mechanical	Electrical	Service manual revision
Paper path	Transmit/receive	Retrofit information
Other ( )		

This RTB has been issued to announce the firmware release information for the PS3/PDF.

Version	Program No.	Effective Date	Availability of RFU
1.03	G1795750D	October 2011 production	Available
1.02	G1795750C	February 2010 production	Available
1.01	G1795750B	June 2009 production	Available
1.00	G1795750A	1st Mass production	Available

Note: Definition of Availability of RFU via @Remote

"Available": The firmware can be updated via RFU or SD card. "Not available": The firmware can only be updated via SD card.

Version	Modified Points or Symptom Corrected
1.03	Symptom corrected: 1. If the submission of a PDF Direct job results in a disk-full error, all subsequent PDF Direct jobs (even ones that don't exceed the disk size) will be reset. - Note: The occurrence of the problem and effectiveness of the fix are unrelated to whether or not the device has a hard disk or is using a RAM disk.
	<ol> <li>If printing a PDF Direct job that calls a "download font" from the hard disk (or Ram disk), one of the other resident fonts might be used instead. (GFPR#RE10070014)</li> <li>If printing a PDF Direct job containing embedded fonts that have the same name but are actually different fonts, characters will be garbled. (GFPR#RA11020001, RE10080005, RA10020002)</li> </ol>
1.02	Symptom corrected: 1. Batch printing of PDF documents results in a memory overflow and all jobs being cancelled.
1.01	<ul> <li>Symptom corrected:</li> <li>1. PDF Direct Printing of PDFs containing multiple images might result in the PS error "limitcheck" being printed.</li> </ul>
1.00	1st Mass production

# Technical Bulletin

Reissued: 26-Apr-11

Date: 13-Mar-08

No.: RG179008k

#### **RTB Reissue**

Model: AI-P1

The items in bold italics have been corrected or added.							
Subject: Firmware Release Note: Printer			Prepared by: T. Hirakawa				
From: 1st Overseas Tech Support Sec., 1st PQM Dept.							
Classification:	Troubleshooting	Part informat	tion	Action required			
	Mechanical	Electrical		Service manual revision			
	Paper path	Transmit/rec	eive	Retrofit information			
	Product Safety	🛛 Other (	)	🖂 Tier 2			

This RTB has been issued to announce the firmware release information for the Printer.

Version	Program No.	Effective Date	
1.19	G1795746N	May 2011 production	
1.18	G1795746M	November 2010 production	
1.17	G1795746L	April 2010 production	
1.16	G1795746K	January 2010 production	
1.15	G1795746J	December 2009 production	
1.14	G1795746H	June 2009 production	
1.13	G1795746G	May 2009 production	
1.12	G1795746F	April 2009 production	
1.11	G1795746E	February 2009 production	
1.10	G1795746D	November 2008 production	
1.09	G1795746C	September 2008 production	
1.08	G1795746B	June 2008 production	
1.00	G1795746A	1st Mass production	

Version	Modified Points or Symptom Corrected
1.19	Symptom corrected:
	1. PS jobs with a large number of images might be unexpectedly reset.
	<ol> <li>Multiple jobs that are released (printed from the hard disk) by the same user might result in some of the jobs being recorded in the device's Job History as being printed by "". This only affects the use of the following Job Types and only occurs if User Authentication is enabled:</li> <li>Sample Print</li> <li>Hold Print</li> <li>Locked Print</li> <li>Stored Print</li> </ol>
	<ol> <li>If a job is submitted while the Printer application is still in the process of starting up, the Printer application might stall with "Processing" displayed on the operation panel.</li> <li>Other changes:</li> </ol>
	A new BitSwitch#6-7 has been added. When set to '1', if multiple collated copies are printed, the device no longer responds to PJL USTATUS with the

## RICOH Beissued: 26-Apr-11

Model: AI-P1 Date: 13-Mar-08 No.: RG179008k					No.: RG179008k	
Version		Modified Poi	nts or :	Symptom (	Corrected	
	number of pages in th	e current co	py. Ins	tead the de	evice will r	return the total
	number of pages for a	Il copies.				
1.18	IMPORTANT: When you update to this version of Printer(ver. 01.18, Program No. G1795746M), be sure to install the following firmware version (or newer) together as a set, otherwise the machine will not function correctly. Upgrade the firmware listed in the table below together as a set, according to the options that are already installed on the customer's machine.					
	Firmware:	Version:	Progr	am No.:	Note:	
	Web Support	1.14	G179	5743D	forG179	
	Network Support	7.34	G179	5742J	forG179	
	Symptom corrected: 1. If IPDS fonts are re IPDS Fonts), users	set (Menu bu might not be	itton > I able to	Maintenanc logout fron	e > HD Ma n the opera	nagement > Reset ition panel.
	<ul> <li>2. An IPDS Form can be created with unsupported dimensions using Web Image Monitor (Configuration &gt; IPDS Form List &gt; Media Size = Custom Size &gt; Cross Feed Dimension/Feed Dimension). Once created it can be selected using the IPDS Form Allocation setting. Note:</li> <li>Note:</li> <li>Supported dimensions for this model are:</li> <li>Cross Feed Dimension: 182.0 - 297.0 mm Feed Dimension: 210.0 - 432.0 mm Note: To fix this problem, Printer firmware (version 1.18 or later), System firmware (version 1.18 or later) need to be applied to the device.</li> </ul>					
	3. Suspending a job (Suspend/Resume button) and then opening a tray might result in the printer hanging. The job cannot be resumed and the printer must be rebooted.					
	Other changes: The setting "Menu > Host Interface > Network > Permit SSL/TLS Comm." has been added. Note: For this change to take effect, Network Support firmware version 7.34 or later and Web Support firmware version 1.14 or later both need to be applied to the					
	printer.					PP
1.17	<ol> <li>Symptom corrected:</li> <li>Jobs not containing any PJL commands are held by the device and not printed until another job is submitted or a button is pressed on the device. This occurred if the device entered in energy saver mode immediately after printing a diagnostics page (List/Test Print, etc.).</li> </ol>					
	2. If the Auto Continue the device will stall. jobs (30 or 40) were	e setting is "Ir This only oc e submitted b	mmedia curred back to	ite" and the if the paper back.	source tra ran out aft	y runs out of paper, er several small

Model: AI-P1 Date: 13-Mar-08 No.: RG17900								
Version		Modified Points or	Symptom Corrected					
	3.	IPDS jobs are cancelled if submitted to a tray whose paper type is configured as a "User Paper Type".						
	4.	A form is assigned to a tray (Web Image Monitor > Configuration > Printer > Basic Settings > IPDS Menu > IPDS Form Allocation), but this form assignment cannot be seen in the operation panel setting (Menu button > Print Settings > IPDS menu > Tray Form).						
	5.	The Reset IPDS Fonts confirmation dialogue cannot be closed without stalling the device.						
		After the IPDS fonts are reset (Menu button > Maintenance > HD Management > Reset IPDS Fonts > OK) a confirmation "Are you sure you want to reset IPDS Fonts?" is shown. This is correct. However, due to this bug, it would be shown repeatedly if "Yes" was pressed. The only way to close this dialogue was to press "No". Furthermore, if "No" was pressed after "Yes" had been pressed 3 or more times, the device would stall.						
	6.	<ul> <li>The following steps might stall the device.</li> <li>Configure "Menu button &gt; Print Settings &gt; IPDS menu &gt; Color Simulation &gt; Legacy"</li> </ul>						
1.16	Syı 1. 2.	<ul> <li>Navigate to the last page of the IPDS menu and hit the Escape button.</li> <li>Symptom corrected: <ol> <li>If printing of an IPDS job is interrupted by an error requiring operator attention (paper jam, cover open, etc.), an alert is sent to the host after the error state has been recovered, instead of when the device first enters the error state.</li> <li>The device becomes unresponsive displaying "Waiting for Print data" if any of the following settings are changed while the device has an active IPDS session.</li> <li>Printer Features <ul> <li>System Settings</li> <li>Trav Paper Settings</li> </ul> </li> </ol></li></ul>						
	No	- Adjustment Settings for Operators te: The printer status returned to Ready	after the IPDS session	timed out.				
1.15	Syr 1. 2. 3.	mptom corrected: The use of SDK applications that access might result in slow printing. Printing multiple jobs of differing PDLs might result in the device stalling. If any non-IPDS job in the print queue is device will stall. WIM: Job > Current/Waiting Jobs > Dele Operation Panel: Job List > Delete Rese	es the GPS Filter (such to Virtual Printers of diff s deleted while receivin te Reservation rvation	as the PDL filter) fering priorities g an IPDS job, the				
	Oth IPE WII Op No sta	her Changes: DS jobs can no longer be deleted from th M: Job > Current/Waiting Jobs > Delete eration Panel: Job List > Delete Reserva te: This change was made because dele lled the device.	ne print queue. Reservation ation eting IPDS jobs from the	e print queue				

Model: AI-P1         Date: 13-Mar-08         No.: RG179008k						
Version	Modified Points or	Symptom Corrected				
1.14	<ol> <li>Symptom corrected:         <ol> <li>Jobs smaller than 2Kb cause slow printing if the Printer Language is AUTO.</li> <li>A jam or other minor error affecting an IPDS job might cause the device to stall.</li> <li>The device might stall if an IPDS job draws pages from both the interposer and an MFP tray, and a jam occurs.</li> <li>Jobs including the "@PJL DEFAULT" environment variable RESOLUTION or BITSPERDOT result in an SC997 error.</li> <li>If the device receives a non-IPDS job while it is processing an IPDS job, the device will stall.</li> </ol> </li> </ol>					
1.13	<ul> <li>Symptom corrected:</li> <li>1. The service call status icon is displayed in WIM when the waste toner receptacle is full.</li> <li>2. Cannot print while "Replace Maintenance Kit B" is displayed.</li> <li>Note: To fix this problem, System firmware (version 1.13 or later), Printer firmware</li> </ul>					
1.12	Symptom corrected: 1. Minor bug correction.					
1.11	<ul> <li>Symptom corrected:</li> <li>1. If the Selective User Authentication function (SP5-420-041) and User Authentication are both enabled, unauthenticated users can directly access the urls of WIM's Printer Job History, Printer Error Log and Print Job List.</li> <li>2.</li> </ul>					
	<ul> <li>Even if installed, "Maintenance Kit A" is not displayed in WIM &gt; Home &gt; Supplies &gt; Other.</li> <li>"Maintenance Kit B" is displayed as simply "Maintenance Kit" in WIM &gt; Home &gt; Supplies &gt; Other.</li> </ul>					
	<ol> <li>Personal Information Protect (SP5-88 directly accessing the urls of WIM's Pr Print Job List.</li> </ol>	8-001 = 1) is unable to inter Job History, Printe	prevent users from r Error Log and			
1.10	<ol> <li>Symptom corrected:</li> <li>IPDS jobs that use a media type that doesn't support duplex, might cause the device to stall.</li> <li>If the Menu &gt; Supplies button on the device is pressed during printing of an RPCS job, duplex will be cancelled.</li> <li>If the Menu &gt; Supplies button on the device is pressed during printing, finishing features might be cancelled.</li> </ol>					
1.09	<ol> <li>Symptom corrected:         <ol> <li>Storing a large number of jobs to the device HDD as Job Type (le. Stored Print, Locked Print) might cause the device to stall if User Authentication is enabled.</li> <li>IPDS jobs with both duplex and blank pages will appear to stall if a jam occurs.</li> <li>If a job is automatically reset by IPDS due to a paper jam and the next job sent to the printer prints has different print settings (source tray, paper type, paper size, etc.) than the reset job, the device will stall.</li> <li>If 10 or more IPDS jobs are automatically reset by IPDS due to paper jams, the device might stall.</li> <li>Low priority RPCS jobs are canceled by high priority jobs when using Virtual Printer.</li> <li>The Panel Key Sound menu is unaccessible.</li> </ol> </li> </ol>					
1.08	Symptom corrected: 1. The value of Image Density Adjustment	(Operation Panel > Ma	intenance > Quality			

Model: Al-	-P1	Date: 13-Mar-08	No.: RG179008k		
Version	Modified Points or Symptom Corrected				
	Maintenance > Image Density Adjustment) cycle. Though the default value is shown if value used by the machine is correct.	appears to revert to de viewed in the operation	fault after a power panel, the actual		
	Other changes: 1. The IPDS option is now available. To use this option, System firmware (version 7.14 or later), Websys firmware (version 1. 1.08 or later) needs to be applied to the de	on 1.08 or later), NCS fi 12 or later) and Printer vice.	rmware (version firmware (version		
1.00	1st Mass production				

# Technical Bulletin

Reissued: 20-Jul-12 Model: Model AI-P1

Date: 21-Apr-08

No.: RG179009g

#### **RTB Reissue**

The items in bold italics have been corrected or added.						
Subject: Firmware Release Note: Option IPDS				Prepared by: T. Hirakawa		
From: 1st Tech Service Sect., MFP/Printer Tech Service Dept						
Classification:	<ul> <li>Troubleshooting</li> <li>Mechanical</li> <li>Paper path</li> <li>Other ()</li> </ul>	<ul> <li>Part information</li> <li>Electrical</li> <li>Transmit/rec</li> </ul>	tion eive	<ul> <li>Action required</li> <li>Service manual revision</li> <li>Retrofit information</li> <li>Tier 2</li> </ul>		

This RTB has been issued to announce the firmware release information for the **Option IPDS.** 

Version	Program No.	Effective Date	Availability of RFU
4.746	M3455910D	September 2010 production	Available
4.744	M3455910C	December 2009 production	Available
4.739	M3455910B	August 2009 production	Available
4.732	M3455910A	September 2008 production	Available
4.731	M3455910	1st Mass production	Available

Note: Definition of Availability of RFU via @Remote

"Available" The firmware can be updated via RFU or SD card.

"Not available": The firmware can only be updated via SD card.

Version	Modified Points or Symptom Corrected
4.746	<ol> <li>Symptom corrected:         <ol> <li>Duplex IPDS jobs are printed simplex if the Printer is powered up while a tray is open. Specifically, the tray that is open during power up must be the one specified in the Duplex IPDS job.</li> <li>Gray patterns consisting of hatching might not be shown in the printout. Instead the gray pattern was just a black box.</li> <li>If a host prematurely terminates an IPDS session with the Printer, subsequent IPDS jobs cannot be printed. The data-in LED will just blink. Though any premature termination of an IPDS session could cause the problem, testing has shown that the problem was most likely to occur if the IPDS session was terminated mid-job.</li> <li>The IPDS printing process does not terminate correctly. The device would then stall if a job of another PDL was submitted.</li> </ol> </li> </ol>
4.744	<ul> <li>Symptom corrected:</li> <li>Any font that is not in CFF "Compact Font Format", will not be printed in IPDS jobs.</li> <li>If the machine jams while printing the IPDS font list, it can be made to stall by either of the following operations: <ul> <li>Try to print the IPDS font list again.</li> <li>Try to print any IPDS job.</li> </ul> </li> <li>Other changes: The following functions are now supported.</li> </ul>

## Reissued: 20-Jul-12

Model: Model AI-P1		Date: 21-Apr-08 No.: RG17900				
Version	n Modified Points or Symptom Corrected					
	<ul> <li>DBCS (Double Byte Character Sets)</li> </ul>					
	<ul> <li>IMB (IntelligentMail Barcodes)</li> </ul>					
4.739	Symptom corrected:					
	1. The simplex pages of mixed simplex/duplex IPDS jobs will be printed on the					
	<ul> <li>This problem has been fixed by adding a new printer bit switch: Bit Switch#4-3</li> <li>Bit Switch#4-3 = 1: Simplex pages of IPDS jobs will be printed on the front side of the page.</li> <li>Bit Switch#4-3 = 0: Simplex pages of IPDS jobs will be printed on the back</li> </ul>					
	side of the page.					
	2. IPDS jobs that contain the PFC (Presentation Fidelity Control) command cannot be stapled.					
4.732	Symptom Correction					
	SC997 is generated when paper jam occur.					
4.731	1st Mass production					

## Technical Bulletin

Reissued: 09-Oct-09

Model: AI-P1

Date: 23-May-08

No.: RG179010b

#### **RTB Reissue**

The items in *bold italics* have been corrected or added.

Subject: IPDS Option Release			Prepared by: K. Hamada		
From: 2nd Tech S	Support Sec. Service Support I	Dept.			
Classification:	Troubleshooting	Part informat	tion	Action required	
	Mechanical	Electrical		Service manual revision	
	Paper path	Transmit/rec	eive	Retrofit information	
	Product Safety	🛛 Other (	)	🛛 Tier 2	

### Installation Procedure for the IPDS Option When Used on the Model AL-P1

The IPDS option will be released in June 2008. The installation procedure for this option on the Model AL-P1 is shown below.

### **IPDS OPTION**

#### Accessories Description

Q'ty

1. IPDS Emulation SD Card ......1

**Important:** Only one Slot 1 is available for SD cards that contain applications. If you want to use more than one application, merge all applications into one SD card (SP5873-001).

#### Installation

1. Make sure the following requirements have been met.

#### **Requirements:**

- The Hard Disk Drive Option Type 5000 must be installed.
- The following firmware versions must be installed:

Firmware Name	Version	Firmware Number
System	V1.08 or later	G1795740B
NCS	V7.14 or later	G1795742B
Websys	V1.12 or later	G1795743B
Printer	V1.08 or later	G1795746B

2. Turn OFF the main switch.

Reissued: 09-Oct-09

Model: AI-P1

RICOH

Date: 23-May-08 No.: RG179010b

3. Loosen the screw and remove the SD card slot cover at an angle ( $\hat{\mathscr{F}} \ge 1$ ).



4. Insert the IPDS SD Card into Slot 1 (Upper slot) until it clicks.

#### Important:

- Pushing on the SD Card releases it for removal. Make sure the SD card is inserted and locked in place. If it is partially out of the slot, push it in gently until it locks in place.
- If Slot 1 (upper slot) is occupied, insert the attached SD card into Slot 2 (lower slot) and the IPDS SD card into Slot 1. Then, merge the application into the IPDS SD card.
- 5. Reattach the cover and turn ON the main switch.
- 6. Do the following setting "A" or "B" to enable the IPDS function.

#### A. [Enable the IPDS function via telnet]

- 1. Connect the machine via telnet.
- 2. Execute the following commands:

#### msh> set ipds up

\*\*\*If you want to stop the function. msh> set ipds down

#### B. [Enable the IPDS option via WebImageMonitor]

- 1. Log in to WebImageMonitor.
- 2. Change the setting to enable IPDS.

# Technical Bulletin

Model: Model AI-P1 Date			<b>e</b> : 3-Jun-0	8	No.: RG179011	
Subject: SC866(SD card error 1)			Prepared	d by: ĸ. ⊦	lamada	
From: 2nd Tech	Support Sec. Service Support [	Dept.				
Classification:	☐ Troubleshooting	Part info	ormat	tion	Action	n required
	Mechanical	Electric	al		Servic	e manual revision
	Paper path	🗌 Transm	it/rec	eive	Retrof	fit information
	Product Safety	Other (		)	Tier 2	

#### SYMPTOM

SC866 (SD Card Error 1: Confirmation) occurs when installing an SD card option if the System firmware is older than Ver1.08.

### CAUSE

Due to a firmware bug (System), the machine cannot authenticate the SD card.

**Note:** There is nothing wrong with the SD card or application itself. The problem is with the System/Copy firmware.

#### SOLUTION

If you want to install an SD card option, update the System firmware to **Ver1.08** (G1795740B) or later before you install the option.

#### **SD Card Options**

The symptom may occur when you install any of the following options on machines that contain System firmware older than Ver1.08.

Option Name	Code
IPDS Unit Type 5100	M345-05
VM Card Type G	M345-13/19/20
SD Card for Fonts Type B	M345-24

# Modification Bulletin

**RICOH** 

#### **PAGE: 1/1**

Model: AL-P1 Da			ate: 17-Au	g-09	No.: RG179012	
Modified Article: Filter				Prepared by: K. Hamada		
From: 2nd Tech. S	upport Sec. Service Support	Dept.				
Reason for	Parts catalog correction	U Vendor	ch	ange	Other	
Modification: 🗌 To facilitate assembly 🛛 🖾 To improve		e reliability	🗌 To mee	et standards		
	Part standardization	Product Safety		afety	(	)

Old part	New part	Description	Q'ty	Int	Page	Index	Note
number	number						
D0093083	D0093086	Development filter	1-1	X/X	26	25	Α
D0093150	D0093152	Entrance Seal Ass'y	1-1	X/X	26	30	Α
D0093065	D0093070	Upper cover – Development unit	1-1	X/X	26	23	Α
	D0093084	Development filter: front	0-1		26	34	Α
	D0093085	Development filter: rear	0-1		26	35	A

**Change:** The shape of the filter and cover were changed. **Reason:** To further improve the sealing of the development unit.

Note A: When you replace new parts together as a set, the interchangeability is X/O.



# Technical Bulletin

Model: AL-P1 Dat			<b>e</b> : 8-Sep-0	9	No.: RG179014	
Subject: Duplex jam or Z-fold jam			Prepared by: K. Hamada			
From: 2nd Tech	Support Sec. Service Support I	Dept.				
Classification:	<ul> <li>☑ Troubleshooting</li> <li>☑ Mechanical</li> <li>☑ Paper path</li> <li>☑ Product Safety</li> </ul>	Part info Electrica Transm	ormat al it/rec	tion eive )	Action Action Servic Retrof Tier 2	n required se manual revision fit information

This RTB applies only to the Model AI-P1.

## SYMPTOM

RICOH

A duplex jam or Z-fold jam may occur if a duplex print job is performed

Note:

- This symptom has a greater tendency to occur under low-temperature conditions.
- Once the symptom occurs, it will continue to occur.

## CAUSE

The motor torque of duplex bypass motors from a specific lot was higher than the specification maximum. This increased the level of vibration during motor rotation, which led to resonance when the vibration reached a certain frequency. Eventually, this caused the motor to disengage and rotate in idle.

## SOLUTION

#### **Production line**

The following changes were made from June 2009 production of the Model AI-P1 mainframes:

- 1. Wheels were added to the motor pulley to minimize resonance as a provisional countermeasure.
- 2. An extra check was added to further ensure that the motor torque does not exceed the specification maximum and change to the new parts number as a permanent countermeasure.

**Note:** The motor after the above additional check does not contain additional wheel in note 1 above.

#### Action requirement in the field

Replace the duplex bypass motor with the following new part: P/N B2232745

Model: AL-P1

Date: 8-Sep-09

No.: RG179014

## Affected Units

This issue affects the following Model AI-P1 mainframes:

Model Name	Code	Serial Number
AI-P1	G179-11	(No affected units)
	G179-17	(No affected units)
	G179-22	S3796400001 to S3796400034
	G179-27	S3796400035 to S3796500381



#### Reissued:19-Oct-09

Model: AL-P1

Date: 01-Sept-09 No.: RG179013a

#### **RTB Reissue**

The chapter "Installation of Card Authentication Package " and "Updating Enhanced Locked Print NX Application and Filter" have been modified.

Subject: Card Authentication Package V1.3 Installation / Activation Guide			Prepared by: K. Hamada		
From: 1st Tech. Support Sec. Service Support Dept.					
Classification:	Troubleshooting Part information		tion	Action required	
	Mechanical	Electrical		Service manual revision	
	Paper path	Transmit/rec	eive	Retrofit information	
	Product Safety	🛛 Other (	)	🛛 Tier 2	

This RTB has been issued to announce the Card Authentication Package V1.3 Installation / Activation Guide release information.

# Installation

## Overview

There are several combinations for using "Card Authentication Package" and "Enhanced Locked Print NX".

- **Embedded Type A:** This is for a customer who wants to use "Card Authentication Package" and "Enhance Locked Print NX".
- **Embedded Type B:** This is for a customer who wants to use only "Card Authentication Package".
- Server Type A: This is for a customer who wants to use "Card Authentication Package Enterprise Server" and "Enhance Locked Print NX".
- Server Type B: This is for a customer who wants to use only "Card Authentication Package Enterprise Server".

	Embedded Type A	Embedded Type B	Server Type A	Server Type B
CAP	Yes	Yes	Yes	Yes
CAP-ES	No	No	Yes	Yes
ELP-NX	Yes	No	Yes	No

Here is the matrix of possible combinations.

CAP: Card Authentication Package

- CAP-ES: Card Authentication Package Enterprise Server
- ELP-NX: Enhanced Locked Print NX (Application and Filter)

## **Confirmation Points before Installation**

- Make sure that the firmware of the **target machine** is the latest version.
- Make sure that the firmware of the VM card is the latest version.
- Check the following SP settings; Bit 0 of SP5401-160 (SSP: Super Service Program) must be set to "0". All bits of SP5401-162 (Extend Certification Detail) must be set to "0". Bit 0 of SP5401-230 (Customized Authentication) must be set to "0".

## Installation of Card Authentication Package

#### "Working with the Machine"

- 1. Install a card reader device in a suitable location.
- 2. Connect the USB cable from the card reader device to the USB slot of the target machine.
  - Note

• The position of the USB slot may vary depending on the machine.

- 3. Secure the cable clamp to the USB slot.
- 4. Install the VM card in the service slot of the target machine.
- 5. Turn on the target machine.

#### "Working with the PC"

- 6. Prepare the applications related to the "Card Authentication Package" and "Enhanced Locked Print NX Package" on your PC.
- 7. Unzip the zip file of the "D4890001.zip" and "D4900001.zip".
- 8. Open the "readme.html" from each unzipped file.

RICOH: <ca< th=""><th>\P&gt;</th><th></th><th></th><th></th></ca<>	\P>			
Device Name	SD Image	Remote Install Image		
Aficio MP 2550 / 2550B / 3350 / 3350B Aficio MP 4000 / 4000B / 5000 / 5000B Aficio MP C2050 / C2550	<u>sd image</u>	remote installer	$\label{eq:states} \begin{array}{c} \textbf{w} \mbox{states} $	
Aficio MP C6000 / C7500 Aficio MP C2800 / C3300 Aficio MP C4000 / C5000 Aficio MP 6001 / 7001 / 8001 / 9001	<u>sd image</u>	remote installer	Image: Second	
Aficio MP 171	sd image	remote installe	and The Sound State Stat	
Aficio SP 8200DN Aficio SP C420DN	sd image	remote installer		
Aficio SP C820DN / C821DN	<u>sd image</u>	remote installer		

RICOH: <elp< th=""><th>NX&gt;</th><th></th><th></th></elp<>	NX>		
Device Name	SD Image	Remote Install Image	
Aficio MP 2550 / 2550B / 3350 / 3350B Aficio MP 4000 / 4000B / 5000 / 5000B Aficio MP C2050 / C2550	<u>sd image</u>	<u>remote</u> installer	Valid Advance         Advance         5           Strict add and advance         Strict adda advance         5           Optime 1         Strict adda advance         Strict adda advance           Optime 1         Strict adda advance         Strict adda advance           Optime 1         Strict adda advance         Strict advance           Optime 1         Strict advance         Strict advance           Optime 2         Strict advance         Strict advance           Optime 2         Strict advance         Strict advance           Optime 2         Strict advance         Strict advance
Aficio MP C6000 / C7500 Aficio MP C2800 / C3300 Aficio MP C4000 / C5000 Aficio MP 6001 / 7001 / 8001 / 9001	<u>sd image</u>	remote installer	Beinford Scherheiten Scherhei
Aficio MP 171	<u>sd image</u>	remote instance	STEES AND A
Aficio SP 8200DN Aficio SP C420DN	<u>sd image</u>	remote installer	
Aficio SP C820DN / C821DN	<u>sd image</u>	remote installer	

9. Click the "remote installer" of the target machine 10. Copy the zip file of each application on your PC

#### Please refer to the following for the location of the application folder.

Model Name	Product	Application	Application Folder	File Name
	Code	Name		
Model AL-P1	G179	CAP	/03_lp/web_installer/	cap_install.zip
		ELP	/01_mips/03_lp/	elpnx_lp_install.zip
		Application	web_installer/	
		ELP Filter		100732416.mod

- 11. Run the Web Image Monitor for the target machine.
- 12. Ask a machine administrator to login to the target machine with the login name and password of the machine's administrator.

RICOH Afic	io SP 8200DN Web Image Monitor	
Home	Home	
Printer: Print Jobs	Statue Supplies Device Info	
Job	Status Supplies Device Into Councer	
Address Book	Device Name : RICOH Aficio SP 8200DN     Location	
Configuration	Comment :	
	<ul> <li>Host Name : alex-p1</li> <li>Reset Device Reset Printer Job</li> </ul>	
	Status	
	Printer 📵 Alert 🔊	Printer: No Paper: Tray 3

13. Press "Configuration" in the main display.

	RC Gate
×	Setup RC Gate
	Update RC Gate Firmware
	RC Gate Proxy Server
LASS &	Webpage
	Webpage
	Extended Feature Settings
<b>1</b>	Startup Setting
	Extended Feature Info
	Install
	Uninstall
	Administrator Tools
	Copy Extended Features
	Copy Card Save Data

14. Press "Install".

Install	
Back	
Select a source	media, then dick [Display Extended Feature List].
Source Media	
O SD Card Slot Web Server	: ;F:\ELPNX\EmbeddedSoftware\01_mips\03_lp\web_installer\100732416.mod  参照
	Display Extended Feature List
Back	

15. Select "Local File" button and select a SDK application file that you want to install then press "Display Extended Feature List"

Note	
Make sure that the correct application file name and folder.	
Please refer to the table on page 3.	

Source Media				
○ SD Card Slot ● Web Server ○ Local File :			参照	7 <u></u>
Display Extended Feature Lis	t			
Installation Target Setting				
Install to Device HDD				
Type-J Setting				
■Auto Start : C On <sup>®</sup> Off				
Extended Feature List				
Install				
(d) 1/1 (b) (b)				
Total Applications: 1				
Extended Feature Name	Туре	Description	Version	Source Media
C ELP NX Filter	С	ELP NX Filter (mips)	1.3.0.0	Local File
-				
Back				

16. Select the destination of the installed SDK application.

#### The following table shows the destination of the installed SDK application.

Application	Destination
Card Authentication Package	SD Card
Enhanced Locked Print NX Application	SD Card
Enhanced Locked Print NX Filter	HDD

17. Press the radio button of the SDK application that you want to install.

#### 18. Press "Install".

Install		
Install	Confirm The following extended fe Extended Feature Name Description Version Product ID Startup Location Allocated to Vendor Contact TEL Fax E-mail	eature will be installed. : ELP NX Filter : ELP NX Filter (mips) : 1.3.0.0 : 100732416 : Device HDD : Other Functions
0	Cancel	

19. Check the information for the installed SDK application.

20. Press "OK" to complete this installation.

21. If you want to install other SDK application, perform from step 15.

	RC Gate
×	Setup RC Gate
	Update RC Gate Firmware
	RC Gate Proxy Server
	Webpage
	Webpage
	Extended Feature Settings
	Startup Setting
	Extended Feature Info
	Install
	Uninstall
	Administrator Tools
	Copy Extended Features
	Copy Card Save Data

22. Press "Administrator Tools" in the mail view.

Heap / Stack Size	Settings		
<ul> <li>Heap Size</li> <li>Stack Size</li> <li>Memory Status</li> </ul>	:		MB (2 - 16 MB) KB (32 - 64 KB)
System Memory Heap	:	Free (Total: Free (Total:	) )
Apply	Back		

23. Input an appropriate value of the Heap size (see the table below) then press "Apply".

Required heap size for the "Copy Extended Feature" depends on a combination of installed applications. For details, refer to the table below.

CAP	ELP-NX	GlobalScan NX	Required Heap Size
Yes	-	-	8 MB
Yes	Yes	-	16 MB
Yes	Yes	Yes	16 MB
Yes	-	Yes	16 MB

24. Turn the target machine off and on.

#### "Working with the PC"

25. Activate the "Card Authentication Package" and "Enhanced Locked Print" (if it is installed) with the Remote Manager.

Note

• For details, see "DSDK Application Installation" in the "Embedded Software Remote Manager Installation/Activation Guide".

# The following steps from 26 to 34 should be done by a machine administrator.

- 26. Configure the card reader settings with the Card Authentication Package Web UI.
- 27. Run the Web Image monitor for the target machine.
- 28. Login to the target machine with the login name and password of the machine's administrator.

#### 29. Select "Address Book"

Address List							
Back							
Change	dd User		Add G	roup (	De	elete 🔳	Maintenance
View: All	•			Search	for: Re	egistration I	No. 💌
I I/2 ► ►	Page : [		Go	Displa	ay Item	s: 10 💌	Number of Regi
Registration No.	Name	Freq.	Title 1	Title 2	Title 3	User Code	Fax Destination
00001	asomur a	On				asomura	
C <b>1</b> 00002	masa	On	OPQ			masa	

30. Select Registration No. and press "Change".

Authentication Information					
User Code :	asomura				
SMTP Authentication	C Specify Other Auth. Info below: © Do not Specify				
Login User Name :					
Login Password :	Change				
Folder Authentication	C Specify Other Auth. Info below: © Do not Specify				
Login User Name :					
Login Password :	Change				
LDAP Authentication	C Specify Other Auth. Info below: 💿 Do not Specify				
Login User Name :					
Login Password :	Change				
Available Functions					
Color Copy Mode Limitation : O Limit to Auto Color Solection . Sull Color / Auto Color Solection					
Printer:	✓ Color ✓ Black & White				
Other functions :	🗹 Document Server 🔽 Facsimile 🔽 Scanner 🕞 avaTM/X				

31. Select "JavaTM/X" and press "OK". 32. Turn the target machine off and on.

# Uninstallation

## Uninstalling Card Authentication Package

- 1. Turn on the target machine.
- 2. Deactivate "Card Authentication Package" and "Enhanced Locked Print-NX Application" with the Remote Manager. For details, see "Deactivation" in the "Embedded Software Remote Manager Installation/Activation Guide".

#### 😪 Important

Before uninstalling activated SDK applications, deactivation must be done. Otherwise, the product key will be wasted.

- 3. Uninstall the SDK applications which you want to remove, except for the Java VM application, with the operation panel or Web Image Monitor.
- 4. Turn the target machine off and on.
- 5. Uninstall the Java VM application with the operation panel or Web Image Monitor..
- 6. Change the following SP settings.
  - Bit 0 of SP5401-160 (SSP: Super Service Program) must be set to "0".
  - All bits of SP5401-162 (Extend Certification Detail) must be set to "0".
  - Bit 0 of SP5401-230 (Customized Authentication) must be set to "0".
- 7. Turn off the target machine, and then remove the VM card from the target machine.

# **Remote Updating Procedure**

## Updating Card Authentication Package

#### Important)

First update the Java VM Platform if the Java VM Platform and Card Authentication Package are supposed to be updated at the same time.

1. Ask a machine administrator to disable the Card Authentication Package with the operation panel.

Note

- Disable other Card Authentication Packages if they have been installed in the machine.
- You can also disable the Card Authentication Package with the web image monitor.
- 2. Launch the Remote Manager.
- 3. Add a Card Authentication Package for updating in the Remote Manager

See the "Adding a Card Authentication Package in the "Remote Manager" sub section of the "Card Authentication Package Installation" section of the Remote Manager Operation Guide.

4. Install the Card Authentication Package for updating in the target machine **Note** 

See the "Installing the Card Authentication Package in the Target Machine" sub section of the "Card Authentication Package Installation" section of the Remote Manager Operation Guide.

- 5. Turn off and on the target machine.
- Ask a machine administrator to check if the version of the Card Authentication Package is updated and if the installed Card Authentication Package is "Starting Up"

## Updating Enhanced Locked Print NX Application and Filter

## **Enhanced Locked Print NX Application**

- 1. Prepare the applications related to the "Enhanced Locked Print NX Package" on your PC.
- 2. Unzip the zip file of the "D4900001.zip".
- 3. Open the "readme.html" from unzipped file.

RICOH:				
Device Name	SD Image	Remote Install Image		
Aficio MP 2550 / 2550B / 3350 / 3350B Aficio MP 4000 / 4000B / 5000 / 5000B Aficio MP C2050 / C2550	<u>sd image</u>	remote installer	Control Control Control Control     Contro     Control     Control     Control     Control     Control     C	len
Aficio MP C6000 / C7500 Aficio MP C2800 / C3300 Aficio MP C4000 / C5000 Aficio MP 6001 / 7001 / 8001 / 9001	<u>sd image</u>	remote installer		
Aficio MP 171	sd image	remote instart	The Resident Residence 2000	
Aficio SP 8200DN Aficio SP C420DN	<u>sd image</u>	remote installer		
Aficio SP C820DN / C821DN	sd image	remote installer		

- 4. Click the "remote installer" of the target machine
- 5. Copy the zip file of each application on your PC
  - Please refer to the following for the location of the application folder.

Model Type	Product Code	Application Folder	File Name
Model AL-P1	G179	/01_mips/03_lp/web_image/	elpnx_lp_install.zip

- 7. Ask a machine administrator to disable the ELP NX application using Web Image Monitor.
- 8. Login to the ELP Administrative Tool.
- 9. Export the system configuration file.

Note

See the "Exporting/Importing the System Configuration File" section of the "ELP Administrator's Guide."

- 10. Uninstall the ELP NX Filter using the Remote Manager.
- 11. Install the new version (the update) of the ELP NX Filter using Remote Manager.
- 12. Reissue the product license using Remote Manager.
- 13. Store the obtained product license in the target machine using Remote Manager.

For details about steps from 10 to 13, see the "Uninstallation Procedure" section of the "Remote Manager Operation Guide."

14. Import the system configuration file.

Note

See the "Exporting/Importing the System Configuration File" section of the "ELP Administrator's Guide."

- 15. Turn the main power of the target machine OFF/ON.
- 16. Ask a machine administrator to confirm that the ELP NX application has been
successfully updated to the target version, and that this application is operating normally.

## Enhanced Locked Print NX Filter

The update procedure is the same as the installation procedure (see page 3 of this document).

# Appendix

## Matrix of Available Installation/Activation Tools

	Installation Destination	Action	WIM	Remote Manager	SD Card
		Installation	Yes	Yes	No
CAP	Target	Activation	No	Yes	No
CAP	Machine	Version Up	Yes	Yes	No
		Activation	-	-	-
	Server	Installation	No	No	No
CAF-ES	Server	Activation	No	No	No
		Installation	Yes	Yes	No
ELP-NX	Target	Activation	No	Yes	No
APP	Machine	Version Up	Yes	Yes	No
		Activation	No	Yes	No
	Torgot	Installation	Yes	No	No
ELP-NX Filtor	Machine	Activation	-	-	-
		Version Up	Yes	No	No
		Activation	-	-	-

- CAP: Card Authentication Package Embedded Type
- CAP-ES: Card Authentication Package Server Type
- ELP-NX APP: Enhanced Locked Print NX Application
- ELP-NX Filter: Enhanced Locked Print NX Filter
- WIM: Web Image Monitor
- -: Not necessary

## Installation File Types

### SD Card

Unzipped folder of each application

### Remote Manager

Zip file of each application

### Web Image Monitor

- All applications except ELP-NX Filter: Zip file (same as RM)
- ELP-NX Filter: Unzipped folder in the /sdk/webinstaller folder.

# Technical Bulletin

#### **PAGE: 1/5**

Model: AL-P1			Dat	e:21-Dec-	09	No.: RG179015	
Subject: Dirty Background					Prepared by: K. Hamada		
From: 1st Overse	eas Tech Support Sec., 1st PQ	M Dept.					
Classification:	☐ Troubleshooting	Part inf	orma	tion	Action	n required	
	Mechanical	Electric	al		Servic	ce manual revision	
	Paper path	Transm	it/rec	eive	Retro	fit information	
	Product Safety	Other (		)	Tier 2		

### **SYMPTOM**

Dirty background sometimes appears.

## CAUSE

When one of the following conditions is met, the chargeability of the toner is decreased, and the machine responds by increasing the toner concentration (TC). As a result, toner filming on the development roller is accelerated, and the poorly-charged toner is easily transferred onto the non-image areas of the OPC surface.

- Low humidity and low temperature conditions
- High print volume
- High one-to-one print jobs
- High image coverage
- High paper dust content in recycled toner

## SOLUTION

#### Production:

The toner was modified to minimize a decrease in chargeability under the conditions listed above.

Note: The modified toner has a lot number that ends in suffix A.

|--|

Model: AL-P1

RICOH

Date:21-Dec-09

No.: RG179015

## Action In The Field:

If the symptom is reported, do the following four procedures.

### I. Cleaning the pathway for recycled toner inside the PCDU

- 1. Turn the machine main power OFF.
- 2. Remove the PCDU.
- 3. Remove the green handle.



4. Remove 4 screws and 1 spring.



5. Remove the upper cover then clean out the recycled toner with a vacuum cleaner.



6. Re-attach all removed parts.

Technical B		ulletin	PAGE: 3/5
Model: AL-P1		Date:21-Dec-09	No.: RG179015

## II. Cleaning the development roller surface

**IMPORTANT:** You do not need to replace the development roller. This symptom can be solved by performing the four procedures in this RTB.

1. Remove the two screws and open the PCDU as shown below.





2. Remove the entrance sheet (Clip x 2).



- 3. Fold up a sheet of copy paper to fit the width of the uncovered area of the development roller, as shown below.
- 4. Slide the paper along the length of the roller to clean the toner off the surface.







## Technical Bulletin

Mod	lel:	AL-P	1
	-		

Date:21-Dec-09 No.: RG179015

- 5. Rotate the development roller in the direction of the arrow until the section you cleaned is no longer visible. Repeat Step 4 for this section of the roller surface.
- 6. Repeat Steps 4 and 5 until you have cleaned the entire surface of the roller.

Direction of rotation

7. Reassemble the PCDU and install the PCDU into the machine.

## III. Removing toner from the toner supply unit

- 1. Remove the toner supply unit.
- 2. Lift the shutter [A] up and turn the inner plastic parts [B] in the direction as shown below until all toner comes out from the unit.



- 3. Re-install the toner supply unit and set the new toner bottle.
- 4. Turn the main switch on.

Technical	<b>B</b> ulletin
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**PAGE: 5/5** 

Model: AL-P1	Date:21-Dec-09	No.: RG179015
IV. Set the following SP modes to the values sh	own.	
SP Mode:	Set to this v	alue:
<b>SP 2201-01</b> (Development Bias): <b>SP 2201-02</b> (Development Bias for ID sensor pa	560(default ttern): 400(default	)
Note: For high-CV users (APV: 30K or more),	set this SP to a value of	of <b>460</b> .

SP 2001-01 (Charge Roller Bias):

### 1500(default)

# Technical Bulletin

### PAGE: 1/1

Model: AL-P1			Dat	e: 12-Feb	-10	No.: RG179016
Subject: Toner Handle				Prepare	d by: ĸ. ŀ	Hamada
From: 1st Overse	eas Tech Support Sec., 1st PQN	/I Dept.				
Classification:	Troubleshooting	🛛 Part info	ormat	tion	Action	n required
	Mechanical	Electric	al		Servic	ce manual revision
	Paper path	🗌 Transm	it/rec	eive	Retro	fit information
	Product Safety	🗌 Other (		)	Tier 2	

Old part number	New part number	Description	Q'ty	Int	Page	Index	Note
	D0093264	Cam: handle	0-1	-	25	18	

Change/ Reason: This part is added due to a field request.



## Technical Bulletin

Reissued:29-Nov-10

Model: AL-P1

Date: 22-Nov-10

No.: RG179017a

#### **RTB Reissue**

The items in *bold italics* were corrected or added.

Subject: MAC /	Address Change Notificat	Prepared	d by: T.Hirakawa	
From: 1st Overseas Tech Support Sec., 1st PQM Dept.				
Classification:	Troubleshooting	Part informat	tion	Action required
	Mechanical	Electrical		Service manual revision
	Paper path	Transmit/rec	eive	Retrofit information
	Product Safety	🗌 Other (	)	

## **MAC Address Change Notification**

### **Overview:**

- The number of available MAC address codes used on Ricoh MFP/LPs has been depleted. Therefore, a new vendor code has been assigned to all affected models.
- The part number of the PCB used on the G179 was changed as follows:

Old Part Number	New Part Number	Description	I/C
G1795706	G1795716	Controller: PCB for G179	X/O

#### **NEW MAC address affected:**

Model	Code	Production Line
AI-P1	G179-11,17,22,27	Nov/2010 at RAI

### **Connection issues and solutions:**

 MFP/LPs that use the new MAC address have connection issues with the following Ricoh software products:

# SmartDeviceMonitor for Admin/SmartDeviceMonitor for Admin V8/Accounting Report Package

- 1. The User Management Tool and the Addressbook Management Tool do not work.
- 2. Printing jobs and machine status cannot be reset.
- 3. The MFP/LP's NIB password cannot be changed.
- 4. The NIB Setting Tool does not work.

# SmartDeviceMonitor for Client / DeskTopBinder SmartDeviceMonitor for Client

Automatic protocol/port number specification does not work when adding the SmartDeviceMonitor port.

Reissued:29-Nov-10

Model: AL-P1

Date: 22-Nov-10

No.: RG179017a

#### Web Smart DeviceMonitor

The device is detected as another vendor's product.

### **RC Gate S**

The device is detected as another vendor's product.

The issues described above have been resolved by the following update versions, which have already been released to the field. If any of these issues occur, update to the following version(s) or newer:

Product Name	Version	Web Release date *
SmartDeviceMonitor for Admin V7	V7.4.3.0	Oct. 23, 2009
DeskTopBinder SmartDeviceMonitor for Client	V8.7.5.0	Oct. 23, 2009
DeskTopBinder lite	V5.4.1.1	Nov. 06, 2009
Web SmartDeviceMonitor	V02.07.00-04	Dec. 25, 2009
RC Gate S	V01.01.03	Dec. 10, 2009
SmartDeviceMonitor for Admin V8	V8.1.1.0	Nov. 06, 2009
SmartDeviceMonitor Accounting Report Package	V1.1.1.0	Nov. 06, 2009

### Other important notes:

- The controller firmware was also modified in order to support both the old and new MAC addresses. Firmware version 1.16 and newer support the MAC addresses, but an SC error may occur if the old firmware is installed on a PCB with the new MAC address.
- PCBs that contain the old MAC address will still be available under the following P/N, but the quantities are very limited. Therefore, only order this board if the customer needs to continue using the old firmware (such as a customized version of firmware) when the PCB breaks.

Model	Part Number	Description
Al-P1	G1795726	Controller: PCB for G179

For regular parts replacement, please order the board containing the new MAC address, and advise the customer to update the utility as necessary.

## Technical Bulletin

Reissued:21-Dec-10

Model: AL-P1

Date: 17-Dec-10

No.: RG179018a

### **RTB Reissue**

The items in <i>bold italics</i> were corrected or added.	
---	--

Subject: Service manual correction				Prepared by: T.Hirakawa			
From: 1st Overseas Tech Support Sec., 1st PQM Dept.							
Classification:	Troubleshooting	Part information	tion	Action required			
	Mechanical	Electrical		Service manual revision			
	Paper path	ath Transmit/rece		Retrofit information			
	Product Safety	🗌 Other (	)	Tier 2			

Service Manual Revision

The areas in **bold** were corrected.

### Service Program Mode tables pg.220

	Test Pattern						
	Use this SP to select	a print test pat	tern.				
	1. Access Service	Program (SP)	Mode.				
	2. Access Engine M	lode and sele	ct SP2-109-001.				
	3. Select the numb	er for the test	pattern that you want to print.				
2109	Important: Do n	ot exit Engine	e Mode.				
	4. Select one of th number of pages	e modes from s you want to	n <i>SP5-990<u>-001</u> to -<u>007</u>, depending on the print out.</i>				
	5. Push "Execute".						
	Note: After you exit Engine Mode, SP2-109-001 (test pattern) returns to a value of "0"						
001	Pattern Selection	[0 to 24/0/1]					
001		Test pattern c	of the GAVD				
	0:None		13:Independent Pattern(3 dot)				
	1:Vertical Line(1 dot)		14:Trimming Area				
	2:Vertical Line(2 dot)		15:Hound's Tooth Check (Vertical)				
	3:Horizontal Line(1 d	ot)	16: Hound's Tooth Check (Horizontal)				
	4:Horizontal Line(2 d	ot)	17:Black Band (Horizontal)				
	5:Grid Vertical Line		18:Black Band (Vertical)				
	6:Grid Horizontal Line		19:Checker Flag Pattern				
	7:Grid Pattern Small		20:Grayscale (Vertical Margin)				
	8:Grid Pattern Large		21:Grayscale (Horizontal Margin)				

# Technical Bulletin

Reissued:21-Dec-10

Mode	l: AL-P1			Date: 17-Dec-10 No.: RG179018				
	9:Argkle Pattern Small		22:Two Beam Density Pattern					
	10:Argyle Pattern Large		23:Fu	23:Full Dot Pattern				
	11:Independent Pa	1:Independent Pattern (1 dot)		1:All White Pattern				
	12:Independent Pa	attern (2 dot)						
		[0 to 15 / 15 / 1]	1					
002	002DensitySet the density of the test pattern which is output in SP001.This SP is not used for the Grayscale patterns.				utput in SP2109- tterns.			

## Technical Bulletin

Reissued:13-Jun-11

Date: 03-Mar-11

No.: RG179019a

#### **RTB Reissue**

Model: AL-P1

The items ir	n <i>bold italics</i> were correc	ted or added.			
Subject: Parts catalog correction			Prepared by: T.Hirakawa		
From: 1st Overs	eas Tech Support Sec., 1st PC	QM Dept.			
Classification:	Troubleshooting	Part informa	tion	Action required	
	🗌 Mechanical	Electrical		Service manual revision	
	Paper path	Transmit/rec	eive	Retrofit information	
	Product Safety	Other (	)	Tier 2	

Old part	New part	Description	Q'ty	Int	Page	Index	Note
number	number						
-	14076362	EEPROM:BR24L64-W	0-1	-	69	114	
G1795135	G1795136	PCB:BCU:AL-P1:ASS'Y	1-1	0/0	69	6	
					<i>93</i>	*	

### Change:

- 1) The EEPROM is no longer included with the BCU.
- 2) Instead, the EEPROM was added as an individual service part.
- 3) Index #114 (:EEPROM: BR24L64-W) was added to the illustration.

### Reason:

- 1) Requests were received from the field.
- 2) This information was missing from the Parts Catalog.



## Technical Bulletin

**PAGE: 1/1** 

Model: AL-P1

Date: 01-Apr-11

No.: RG179020

Subject: Service	manual correction	Prepared by: T.Hirakawa			
From: 1st Overseas Tech Support Sec., 1st PQM Dept.					
Classification:	Troubleshooting	Part informat	ion	Action required	
	🗌 Mechanical	Electrical		Service manual revision	
	Paper path	Transmit/rec	eive	Retrofit information	
	Product Safety	🗌 Other (	)	Tier 2	

Service Manual Revision

The areas in **bold** were corrected.

"3. Replacement and adjustment" in the Service Manual (pg.144-145)

BCU

1. Controller box ( $\rightarrow$  Mother Board)



- 3. Remove the EEPROM from the old BCU.
- 4. If this EEPROM is working normally, attach it to the new BCU.

If it is defective, attach a new EEPROM to the new BCU.

5. Install the new BCU.

# Technical Bulletin

#### **PAGE: 1/1**

Model: AL-P1	Dat	e: 20-Apr-	11	No.: RG179021				
Subject: Parts information					Prepared by: T.Hirakawa			
From: 1st Overseas Tech Support Sec., 1st PQM Dept.								
Classification:	Troubleshooting	Part info	orma	tion	Action required			
	Mechanical     Electrical		Electrical		Service manual revision			
	Paper path	Transm	it/rec	eive	Retrof	it information		
	Product Safety	Other (		)	🗌 Tier 2			

Change: Some circuit elements on the PCB (PSU) were changed.

Reason: To improve reliability.

Old parts number	New parts number	Description	Q'ty	Int	Page	Index
AZ240141	AZ240191	POWER SUPPLY UNIT -230V	1/1	0/0	105	21

Target model codes:

AL-C1.5(EU): D029-92

AL-C1.5(AA): D091-29, D092-29

AL-C1.5 (CHN) - D091-21, D092-21

AL-C1(EU): D012-92, D013-92

AL-C1 (AA): D009-29, D011-29, D012-29, D013-29

AL-C1 (CHN): D009-21, D009-61, D012-21, D012-61

AL-C1 (KRE) - D009-28, D011-28, D012-28, D013-28

AL-P1 (EU): G179-22, G179-27

# Technical Bulletin

### PAGE: 1/1

Model: AL-P1			Dat	Date: 12-May-11		No.: RG179022	
Subject: Part catalog correction				Prepared by: T.Hirakawa			
From: 1st Overseas Tech Support Sec., 1st PQM Dept.							
Classification:	Troubleshooting	Part informat		tion	Action required		
	Mechanical			Service manual		e manual revision	
	Paper path	Transmit/rec		eive	Retrofit information		
	Product Safety	Other (		)	🗌 Tier 2	1	

Old part	New part	Description	Q'ty	Int	Page	Index	Note
number	number						
G1799590	G1799593	NV-RAM	1-1	O/O	71	16	

Change/Reason: Parts Catalog correction

## Technical Bulletin

Model: Model AL-C1

Date: 19-Apr-12

No.: RD009064

Subject: Part information			Prepared by: Takuya Hirakawa		
From: 1st Tech S	Service Sect., MFP/P Tech Ser	vice Dept.			
Classification:	Troubleshooting	Part informat	tion	Action required	
	Mechanical	Electrical		Service manual revision	
	Paper path	Transmit/rec	eive	Retrofit information	
	Other ()				

Old part	New part	Description	Q'ty	Int	Note
number	number				
-	D0911361	DUCT:RIGHT REAR SIDEWAYS:ALEX:ASS'Y	1		-
-	D0911362	DUCT:REAR:ALEX:ASS'Y	1		-

**Change:** Deodorizing filters were newly added as service parts for the AL-C1/AL-C1.5/AL-C2/AL-P1. **Reason:** To meet the requests of customers who may report strange odors on these models.

Note:

- In certain installation environments, come customers may have a relatively high sensitivity (low tolerance) to odors.
- The installation procedure and limitations of these filters are included below, as part of the **ACTION IN THE FIELD**.

### ACTION IN THE FIELD

If a customer reports a strange odor from the machine, use the **flowchart below** to take the appropriate action.



Model: Model AL-C1

Date: 19-Apr-12

No.: RD009064

### Action referenced in the Flowchart above:

### A. Responding to the Customer

- 1. The first step in handling an inquiry about Ricoh device odor is to explain the following to the customer:
  - Ricoh takes our customers' health and the health of our planet very seriously. This is highlighted by the fact that Ricoh products receive the German "Blue Angel" and Japanese "Eco Mark" certifications. This level of dedication is standard at Ricoh.
  - This means that a properly used and maintained Ricoh product should never be the source of problem in the office environment, including those related to employee health. However, keeping the device in a small, improperly ventilated space or sitting directly in the path of the exhaust fumes has been reported to cause unpleasant odors, head and throat pain, and general discomfort. Therefore, we strongly urge customers to make sure that their devices are placed in areas with proper ventilation, and that the exhaust is pointed safely away from anyone sitting nearby. Ideally, this should be done during initial installation, but working with existing customers to improve the quality of their office environment should be done whenever possible.
  - However, brand new devices have a particularly strong odor that might worry some customers. This odor is significantly reduced by the end of the **first week of use**, so please ask for the customer's patience. See Figure 1 below for an example using the Aficio SP 8100DN.
  - Volatile Organic Compounds (VOC) are particles of the component materials (glues, plastics, chemicals, etc.) that Ricoh devices are built with. VOC are the primary source of the odors produced by Ricoh devices, so tracking VOC levels produced by Ricoh devices is a good indicator of the strength of the odors. Figure 1 shows the VOC levels of a brand new Aficio SP 8100DN during the first 5 days of use. As the graph shows, the amount of VOC has dropped by almost 60%.





\*1: Measurement was performed using a ppbRAE3000 from RAE Systems.

- \*2: "VOC Level (%)" shows the VOC level on a given day as a percentage of the first day's level. Mathematically, this is expressed as [Level detected on a given day] / [First day's level]
- 2. After the customer understands the above, work with the customer to ensure that there is enough ventilation and that the Ricoh devices are installed in a safe and proper manner.



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Model: Model AL-C1 Da	Date: 19-Apr-12	No.: RD009064
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### **B. Room ventilation**

While Ricoh devices are certified as safe, ventilation in some offices can allow even the safe levels of \*VOC produced by Ricoh devices to build to levels that produce strong odors and health effects. In such cases, it is necessary to improve the ventilation of the immediate environment in which the Ricoh device is installed, in order to reduce particle concentration levels.

### C. Deodorizing filter installation procedure

#### Locations of rear filter and fusing exhaust filter:





<sup>\*</sup>VOC: Volatile Organic Compounds are particles of the component materials (glues, plastics, chemicals, etc.) that Ricoh devices are built with.

Model: Model AL-C1

Date: 19-Apr-12

No.: RD009064

### Attaching the rear filter:

Clean the exterior cover around the rear exhaust area using a cloth.
 Important: Make sure to thoroughly clean the contact area for the double-sided tape.



2. Attach the rear deodorizing filter as shown in the photo below.



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**PAGE: 6/7** 

Model: Model AL-C1

Date: 19-Apr-12

No.: RD009064

Attaching the fusing exhaust deodorizing filter:

3. Clean the exterior cover around the fusing exhaust area using a cloth. **Important:** Make sure to thoroughly clean the contact area for the double-sided tape.



4. Attach the fusing exhaust deodorizing filter as shown in the photo below.



Model: Model AL-C1

Date: 19-Apr-12

No.: RD009064

### D. Limitations of the deodorizing filters

The following limitations exist with these filters:

If the temperature of the installation environment is 29C (84.2F) or higher:

- Continuous printing/copying should be limited to a maximum of 38 minutes
- The Auto Off Timer should be set to its default value (60 minutes)

This is because when the temperature is this high, the properties and behavior of the toner change, and image quality issues begin to occur.

## Technical Bulletin

**PAGE: 1/1** 

Model: AL-P1

Date: 13-Jan-11

No.: RG179023

Subject: Printer Service Mode			Prepared by: T.Hirakawa		
From: 1st Overse	eas Tech Support Sec., 1st PQ	M Dept.			
Classification:	Troubleshooting	Part informat	tion	Action required	
	Mechanical	Electrical		$\boxtimes$ Service manual revision	
	Paper path	Transmit/rec	eive	Retrofit information	
	Other ()				

## Service Manual Revision

The areas in **bold** were corrected.

### "Controller Service Mode" of Service Manual (pg.202)

			Bit 5 to 7: Not used. Do not c	hange the settings.			
1001 004	Bit Switch 4	CTL	Adjust bit switch settings. DF	U			
1001 005	Bit Switch 5	CTL	Bit 0 to 2: Not used. Do not change the settings. Bit 3: Enables the "%%" command of the PostScript detection condition for the auto print language selection function. 0: Enabled 1: Disabled Bit 4 to 7: Not used. Do not change the settings.				
			Adjust bit switch settings. DFU				
			Bit: 7 Timing of the PJL Status ReadBack (JOB END) when printing multiple collated copies	0: Disable	1: Enable		
1001 006	Bit Switch 6	CTL	<ul> <li>This bit switch determines the timing at which the devic sends the PJL USTATUS JOB END signal to the client in cases where multiple collated copies are made.</li> <li>0 (default): The device sends the signal after printing ou the first copy. As a result, the page counter is increment after the first copy is made, and then again at the end of the job.</li> <li>1: The device sends the signal after printing out the last copy. As a result, the page counter is incremented at the first copy.</li> </ul>				
1001 007	Bit Switch 7	CTL					
1001 008	Bit Switch 8	CTL	Adjust bit switch settings. DF	U			

## Technical Bulletin

Reissued:10-Apr-12

Date: 28-Jun-11

No.: RG179024a

#### **RTB Reissue**

Model: AL-P1

The items in	bold italics were correc	ted.			
Subject: Parts catalog correction			Prepared by: T.Hirakawa		
From: 1st Overseas Tech Support Sec., 1st PQM [		QM Dept.			
Classification:	Troubleshooting	Part information	tion	Action required	
	Mechanical	Electrical		Service manual revision	
	Paper path	Transmit/rec	eive	Retrofit information	
	Product Safety	Other (	)	Tier 2	

Change/Reason: The illustration shown below was corrected.

- The area enclosed by the red box is the correct outline for P/N G1792211 (index #1). The cover marked "[A]" below is included in P/N G1792200 (PCU). -
- \_
- Cleaning Blade (p/n:D0092351) is not included in Frame:PCU:Upper:Ass'y (p/N:G1792211) \_

#### Pg. 28

#### 11.PCDU 2 (G179)



# Technical Bulletin

### **PAGE: 1/1**

Model: AL-P1			Dat	Date: 11-Jul-11		No.: RG179025	
Subject: Part Information				Prepared by: T.Hirakawa			
From: 1st Overseas Tech Support Sec., 1st PQM Dept.							
Classification:	Troubleshooting	🛛 Part informa		tion	Action required		
	Mechanical	Electrical			Servic	e manual revision	
	Paper path	Transmit/rec		eive	Retrof	fit information	
	Product Safety	Other (		)	Tier 2		

Old part	New part	Description	Q'ty	Int	Page	Index	Note
number	number						
-	11026257	RELAY CONNECTOR - 14P	0-1		69	114	
-	11026271	CONNECTOR:53358-1442	0-1		69	115	

### Change/Reason:

As per field request, the following parts were newly added as service parts.



# Technical Bulletin

#### **PAGE: 1/2**

Model: AL-C2	Dat	Date: 05-Mar-14		No.: RD129048		
Subject: Part Cat	alog Correction	Prepared	d by: M.Y	'oneda		
From: 2nd Tech S	Service Sect., MFP/P Tech Ser	vice Dept.				
Classification:	Troubleshooting	Part info	orma	tion	Action	ו required
	Mechanical		al		Servic	e manual revision
	Paper path	🗌 Transm	it/rec	eive	Retrof	fit information
	Product Safety	Other (	_	)	Tier 2	1

Old part number	New part number	Description	Q'ty	Int	Page	Index	Note
-D0092617	D1292617	GUIDEPLATE:REGISTRATION:UPPER	0-1	X/O	14	3	

**Change:** The method for attaching the COVER-PAPER DUST REMOVAL & GUIDPLATE:REGISTRATION:UPPER was changed. **See details below.** 

**Reason:** To further strengthen the integrity of the connection.

#### Current method:

The guide plate is fixed by mounting the ends of the shaft and fixing it in place with spring pressure.



Model: AL-C2

No.: RD129048

#### New method:

- Co-fastening ribs were added to the guide plate (index #3 below).
  This guide plate and registration lower guide plate (index #12) are fastened to each other using a screw (after the shaft is attached).
  The length of this fastening screw was increased from 6mm to 8mm (index #102)

Date: 05-Mar-14



#### **RAI (China) Production**

Name	Destination	Product Code	Serial #	
Aficio MP 4002				
Gestetner MP 4002	Asia	D129-29	W523MC40001 $\sim$	
Lanier MP 4002				
Aficio MP 4002	Toiwon	D120 10	WE24M100001 -	
Gestetner MP 4002	Taiwan	D129-19	VV524IVI100001/~~	
Aficio MP 4002	China	D129-21	W523MC10001 $\sim$	
Gestetner: DSm940	Ghina	D129-25	W523MC20001 $\sim$	
Aficio MP 4002SP				
Gestetner MP 4002SP	Asia	D129-69	W523MC50001 $\sim$	
Lanier MP 4002SP				
Aficio MP 4002SP	Taiwan	D120-50	W523MC00001~	
Gestetner MP 4002SP	Taiwan	D129-39	W323WC00001 -	
Aficio MP 4002SP	China	D129-61	W523MC30001 $\sim$	
Aficio MP 5002				
Gestetner MP 5002	Asia	D130-29	W533MC40001 $\sim$	
Lanier MP 5002				
Aficio MP 5002	Tahuan	D100.10		
Gestetner MP 5002	Taiwan	D130-19	W534M100001~	
Aficio MP 5002	China	D130-21	W533MC10001~	
Aficio MP 5002SP				
Gestetner MP 5002SP	Asia	D130-69	W533MC50001 $\sim$	
Lanier MP 5002SP				
Aficio MP 5002SP	Taliunan	D100 F0	WE00M000001	
Gestetner MP 5002SP	i aiwan	D130-59	W533MC00001~	
Aficio MP 5002SP	China	D130-61	W533MC70001 $\sim$	

## Technical Bulletin

Reissued:26-Sep-14 Model: AL-C2b

Date: 14-Mar-14

No.: RD129049a

#### **RTB Reissue**

The items in *bold italics* were corrected or added.

Subject: Parts ch	nange and addition information	Prepared by: Y.Saitoh		
From: 2nd Tech	Service Sect., MFP/P Tech Se			
Classification:	<ul> <li>Troubleshooting</li> <li>Mechanical</li> <li>Paper path</li> <li>Product Safety</li> </ul>	<ul> <li>Part information</li> <li>Electrical</li> <li>Transmit/rec</li> <li>Other (</li> </ul>	tion eive )	<ul> <li>Action required</li> <li>Service manual revision</li> <li>Retrofit information</li> <li>Tier 2</li> </ul>

**Change/Reason**: To prevent the cleaning web coming loose, the following parts are changed and newly added to the fusing unit.

[1] Addition of a variable brake on the cleaning web.

[2] Changed the one-way clutch method to ratchet method on the holder roller.

Old part number	New part number	Description	Q'ty	Int	Page	Index	Set	Note
D1294305	D1294304	CLEANING UNIT:ASS'Y	1	X/O	76	*		
AE040099	AE040100	ROLLER: PLATE	1	X/X	76	9	В	
-	D1294331	FLAT NUT:BRAKE	1		76	24**	Α	Please refer to [A] for [1]
-	D1294332	BRAKE:WEB	1		76	25**	А	Please refer to [B] for [1]
D0094355	-	ROLLER CLUTCH			76	8		Deleted, please refer to [C]
-	D1294359	BUSHING: ROLLER:PLATE: FRONT	2	X/X	76	26**	В	Please refer to [D] for [2]
-	B0654211	PRESSURE ROLLER GEAR	1		76	27**	В	Please refer to [E] for [2]
-	B1404209	BRACKET: STOPPER:ASS'Y	1		76	28**	В	Please refer to [F] for [2]
-	D1294309	BRAKE:WEB:ASS 'Y	1		76	29**		
-	D0094321	STAY:UPPER	1		76	30**		

Part number of Fusing Unit doesn't change.

\*\*: New Index



## Technical Bulletin

Reissued:26-Sep-14

Model: AL-C2b

**RICOH** 

Date: 14-Mar-14 No.:

No.: RD129049a

For details of [1], please refer to the following pictures.

[A] and [B] are the variable brake.



### For details of [2], please refer to the following picture.

One-way clutch method was used before. <One-way clutch method> Ratchet method is used after. <Ratchet method>



### For correspondence on MIF:

Please install a new cleaning unit (p/n: D1294304) when the cleaning web issue occurs, because individual parts are not compatible due to changing of the frame of the fusing unit. After that, individual parts can be replaced.

Reissued:26-Sep-14

Model: AL-C2b

Date: 14-Mar-14

No.: RD129049a

## RAI (China) Production

Name	Destination	Product Code	Serial #	
Aficio MP 4002				
Gestetner MP 4002	Asia	D129-29	W524M140023~	
Lanier MP 4002				
Aficio MP 4002	Taiwaa	D100.10	WE04N4100001	
Gestetner MP 4002	Taiwan	D129-19	VV524IVI100001~	
Aficio MP 4002	China	D129-21	W523MC10116~	
Gestetner: DSm940	China	D129-25	W524M120001~	
Aficio MP 4002SP				
Gestetner MP 4002SP	Asia	D129-69	W523MC50142~	
Lanier MP 4002SP				
Aficio MP 4002SP	Taiwan	D100 E0	WE24M100010	
Gestetner MP 4002SP	Taiwan	D129-59	VV524IVI100010~	
Aficio MP 4002SP	China	D129-61	W523MC30203~	
Aficio MP 5002				
Gestetner MP 5002	Asia	D130-29	W534M140007~	
Lanier MP 5002				
Aficio MP 5002	Tojwon	D120 10	WE24M100001	
Gestetner MP 5002	Taiwaii	D130-19	W334W100001~	
Aficio MP 5002	China	D130-21	W533MC10011~	
Aficio MP 5002SP				
Gestetner MP 5002SP	Asia	D130-69	W534M150001~	
Lanier MP 5002SP				
Aficio MP 5002SP	Taiwan	D120 50	W534M100002~	
Gestetner MP 5002SP	Taiwan	D130-39	VV534IVI100002~	
Aficio MP 5002SP	China	D130-61	W533MC70061~	
Ricoh: Aficio MP 5002				
Savin: MP 5002	NA	D130-91	W533MC22811~	
Lanier: MP 5002				
Ricoh: Aficio SP 8200DN	NA	M132-17	T424M110004~	
Ricoh: Aficio SP 8200DN		M120.07	T424M120006-	
Lanier:SP 8200DN	EU/ASIa	IVI I 32-21	142410130000~	

## Technical Bulletin

Model: AL-P1

Date: 27-Jan-15

No.: RG179026

Subject: Parts ch	ange and addition information	Prepared by: A.Ishida		
From: 2nd Tech S	Service Sect., MFP/P Tech Ser			
Classification:	<ul> <li>Troubleshooting</li> <li>Mechanical</li> <li>Paper path</li> <li>Product Safety</li> </ul>	Part informat	tion eive )	<ul> <li>Action required</li> <li>Service manual revision</li> <li>Retrofit information</li> <li>Tier 2</li> </ul>

To prevent the cleaning web from coming loose, the following parts are changed or newly added to the fusing unit.

[1] The addition of a variable brake to the cleaning web.

[2] Changed the one-way clutch method on the holder roller to ratchet method.

Old part number	New part number	Description	Q'ty	Int	Page	Index	Set	Note
D1294305	D1294304	CLEANING UNIT:ASS'Y	1	X/O	76	*		
AE040099	AE040100	ROLLER: PLATE	1	X/X	76	9	В	
-	D1294331	FLAT NUT:BRAKE	1		76	24**	Α	Please refer to [A] for [1]
-	D1294332	BRAKE:WEB	1		76	25**	А	Please refer to [B] for [1]
D0094355	-	ROLLER CLUTCH			76	8		Deleted, please refer to [C]
-	D1294359	BUSHING: ROLLER:PLATE: FRONT	2	X/X	76	26**	В	Please refer to [D] for [2]
-	B0654211	PRESSURE ROLLER GEAR	1		76	27**	В	Please refer to [E] for [2]
-	B1404209	BRACKET: STOPPER:ASS'Y	1		76	28**	В	Please refer to [F] for [2]
-	D1294309	BRAKE:WEB:ASS' Y	1		76	29**		
-	D0094321	STAY:UPPER	1		76	30**		

• Part number of the Fusing Unit does not change.

\*\*: New Index



Model: AL-P1

Date: 27-Jan-15

### [1] Variable brake

[A] and [B] are the variable brake.



### [2]: One way clutch method

One-way clutch method is before. One-way clutch method Ratchet method is after. Ratchet method



### Action to take on MIF:

Please install a new cleaning unit (p/n: D1294304) when a cleaning web issue occurs, because individual parts are not compatible due to modification of a frame on the fusing unit. After that, individual parts can be replaced.

# Technical Bulletin

**PAGE: 4/4** 

Model: AL-P1

Date: 27-Jan-15

No.: RG179026

	RAI	(China)	Production
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Name	Destination	Product Code	Serial #	
Aficio MP 4002				
Gestetner MP 4002	Asia	D129-29	W524M140023~	
Lanier MP 4002				
Aficio MP 4002	Taliusa	D100.10	WE04N4100001	
Gestetner MP 4002	Taiwan	D129-19	W524M100001~	
Aficio MP 4002		D129-21	W523MC10116~	
Gestetner: DSm940	China	D129-25	W524M120001~	
Aficio MP 4002SP				
Gestetner MP 4002SP	Asia	D129-69	W523MC50142~	
Lanier MP 4002SP				
Aficio MP 4002SP	Taliusa	D100 F0	WE04N4100010	
Gestetner MP 4002SP	Taiwan	D129-59	W524M100010~	
Aficio MP 4002SP	China	D129-61	W523MC30203~	
Aficio MP 5002				
Gestetner MP 5002	Asia	D130-29	W534M140007~	
Lanier MP 5002				
Aficio MP 5002	Taiwan	D100 10	WE24N4100001	
Gestetner MP 5002	Taiwan	D130-19	W534W100001~	
Aficio MP 5002	China	D130-21	W533MC10011~	
Aficio MP 5002SP				
Gestetner MP 5002SP	Asia	D130-69	W534M150001~	
Lanier MP 5002SP				
Aficio MP 5002SP	Taliusa	D100 F0	WE0 4N41 00000	
Gestetner MP 5002SP	Taiwan	D130-59	VV534M100002~	
Aficio MP 5002SP	China	D130-61	W533MC70061~	
Ricoh: Aficio MP 5002				
Savin: MP 5002	NA	D130-91	W533MC22811~	
Lanier: MP 5002				
Ricoh: Aficio SP 8300DN	NA	M132-17	T424M110004~	
Ricoh: Aficio SP 8300DN		M100.07	T404M120006	
Lanier:SP 8300DN		IVI I 32-27	1424101130000~	
# **RICOH**

# Technical Bulletin

### PAGE: 1/7

Model: AL-P2		Date: 29-Jun -17			No.: RM132023		
Subject: Part information				Prepared by: Takuya Hirakawa			
From: 1st Tech Service Sect., MFP/P Tech Service Dept.							
Classification:	Troubleshooting	Part information		ion Action required			
	Mechanical	Electric	al		Servic	e manual revision	
	Paper path	Transmit/rec		ceive 🗌 Retrof		it information	
	Other ( )						

Old part number	New part number	Description	Q'ty	Int	Note
-	D0911361	DUCT:RIGHT REAR SIDEWAYS:ALEX:ASS'Y	1		-
-	D0911362	DUCT:REAR:ALEX:ASS'Y	1		-

**Change:** Deodorizing filters were newly added as service parts for the AL-C1/AL-C1.5/AL-C2/AL-P1/ AL-P2.

Reason: To meet the requests of customers who may report strange odors on these models.

Note:

- In certain installation environments, some customers may have a relatively high sensitivity (low tolerance) to odors.
- The installation procedure and limitations of these filters are included below, as part of the **ACTION IN THE FIELD**.

# **ACTION IN THE FIELD**

If a customer reports a strange odor on the machine, use the **flowchart below** to take the appropriate action.



Model: AL-P2

Date: 29-Jun -17

No.: RM132023

## Action referenced in the Flowchart above:

### A. Responding to the Customer

- 1. The first step in handling an inquiry about Ricoh device odor is to explain the following to the customer:
  - Ricoh takes our customers' health and the health of our planet very seriously. This is highlighted by the fact that Ricoh products receive the German "Blue Angel" and Japanese "Eco Mark" certifications. This level of dedication is standard at Ricoh.
  - This means that a properly used and maintained Ricoh product should never be the source of problems in the office environment, including those related to employee health. However, keeping the device in a small, improperly ventilated space or sitting directly in the path of the exhaust fumes has been reported to cause unpleasant odors, head and throat pain, and general discomfort. Therefore, we strongly urge customers to make sure that their devices are placed in areas with proper ventilation, and that the exhaust is pointed safely away from anyone sitting nearby. Ideally, this should be done during initial installation, but working with existing customers to improve the quality of their office environment should be done whenever possible.
  - However, brand new devices have a particularly strong odor that might worry some customers. This odor is significantly reduced by the end of the **first week of use**, so please ask for the customer's patience. See Figure 1 below for an example using the Aficio SP 8100DN.
  - Volatile Organic Compounds (VOC) are particles of the component materials (glues, plastics, chemicals, etc.) that Ricoh devices are built with. VOC are the primary source of the odors produced by Ricoh devices, so tracking VOC levels produced by Ricoh devices is a good indicator of the strength of the odors. Figure 1 shows the VOC levels of a brand new Aficio SP 8100DN during the first 5 days of use. As the graph shows, the amount of VOC has dropped by almost 60%.





\*1: Measurement was performed using a ppbRAE3000 from RAE Systems.

- \*2: "VOC Level (%)" shows the VOC level on a given day as a percentage of the first day's level. Mathematically, this is expressed as [Level detected on a given day] / [First day's level]
- 2. After the customer understands the above, work with the customer to ensure that there is enough ventilation and that the Ricoh devices are installed in a safe and proper manner.



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Model: AL-P2	Date: 29-Jun -17	No.: RM132023
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### **B. Room ventilation**

While Ricoh devices are certified as safe, ventilation in some offices can allow even the safe levels of \*VOC produced by Ricoh devices to build to levels that produce strong odors and health effects. In such cases, it is necessary to improve the ventilation of the immediate environment in which the Ricoh device is installed, in order to reduce particle concentration levels.

# C. Deodorizing filter installation procedure

#### Locations of rear filter and fusing exhaust filter:





<sup>\*</sup>VOC: Volatile Organic Compounds are particles of the component materials (glues, plastics, chemicals, etc.) that Ricoh devices are built with.

# **RICOH**

Model: AL-P2

Date: 29-Jun -17

No.: RM132023

# Attaching the rear filter:

Clean the exterior cover around the rear exhaust area using a cloth.
Important: Make sure to thoroughly clean the contact area for the double-sided tape.



2. Attach the rear deodorizing filter as shown in the photo below.



Technical	<b>B</b> ulletin

**PAGE: 6/7** 

Model: AL-P2

**RICOH** 

Date: 29-Jun -17

No.: RM132023

Attaching the fusing exhaust deodorizing filter:

3. Clean the exterior cover around the fusing exhaust area using a cloth. **Important:** Make sure to thoroughly clean the contact area for the double-sided tape.



4. Attach the fusing exhaust deodorizing filter as shown in the photo below.



Model: AL-P2

Date: 29-Jun -17

No.: RM132023

# D. Limitations of the deodorizing filters

The following limitations exist with these filters:

If the temperature of the installation environment is 29C (84.2F) or higher:

- Continuous printing/copying should be limited to a maximum of 38 minutes
- The Auto Off Timer should be set to its default value (60 minutes)

This is because when the temperature is this high, the properties and behavior of the toner change, and image quality issues begin to occur.